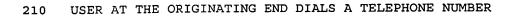


F16.1

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215 CALL CONTROLLER AT THE ORIGINATING END RECEIVES AN SS7 INITIAL ADDRESS MESSAGE

220 CALL CONTROLLER ROUTES THE CALL

225 CALL CONTROLLER DETERMINES THAT A CONTINUITY CHECK OPERATION IS TO BE PERFORMED

230 CALL CONTROLLER SENDS A CONNECTION CONTROL MESSAGE (CREATECONN)
TO THE ORIGINATING GATEWAY TO INITIATE A CONNECTION THROUGH THE ATM
NETWORK AND TO INDICATE THAT THE SENDING SIDE OF A CONTINUITY CHECK IS
REQUESTED

ORIGINATING GATEWAY RESERVES RESOURCES FOR THE CALL AND MAKES THE PATTERN GENERATOR AND PATTERN DETECTOR AVAILABLE

240 PATTERN GENERATOR GENERATES A SPECIFIED BIT PATTERN

245 PATTERN DETECTOR LOOKS FOR THE SPECIFIED PATTERN

250 GATEWAY RETURNS AN ACKNOWLEDGEMENT

MESSAGE (CREATEACK) THAT INCLUDES A

CONNECTION DESCRIPTOR INCLUDING

INFORMATION THAT UNIQUELY IDENTIFIES

THE CALL

NO

285

IS THE PATTERN

DETECTED? (IS

THE CONTINUITY

CHECK SUCCESS
FUL?)

ORIGINATING CALL CONTROLLER SENDS AN IAM MESSAGE TO THE TERMINATING CALL CONTROLLER INCLUDING AN INDICATION THAT THE CONTINUITY CHECK OPERATION IS TO BE PERFORMED FOR THE IDENTIFIED CALL

TO 290

260 TERMINATING CALL CONTROLLER ROUTES THE CALL



ليا

270

NO

FROM

285

YES

CALL CONTROLLER SENDS A CONNECTION CONTROL MESSAGE (CREATECONN) TO THE TERMINATING GATEWAY INCLUDING AN INDICATION THAT THE RECEIVING SIDE OF A CONTINUITY CHECK OPERATION IS BEING REQUESTED

THE TERMINATING GATEWAY ESTABLISHES A PACKET DOMAIN CONNECTION WITH THE ORIGINATING GATEWAY

GATEWAY SETS UP A CONTINUITY CHECK LOOP 275 BETWEEN THE INCOMING AND OUTGOING PACKET STREAMS ASSOCIATED WITH THE PACKET NETWORK CONNECTION

TERMINATING GATEWAY SENDS AN ACKNOWLEDGEMENT 280 MESSAGE (CREATEACK)

ORIGINATING GATEWAY 290 SIGNALS THE CALL CONTROLLER OR MANAGEMENT SYSTEM TO INFORM IT OF THE FAILURE

THROUGH THE PACKET NETWORK

295 ORIGINATING GATEWAY DISCONNECTS PATTERN GENERATOR

300 ADAPTATION LAYER IN THE ORIGINATING GATEWAY IS CONNECTED TO THE DSO CIRCUIT IN THE TDM-DOMAIN THAT WILL HANDLE THE CALL

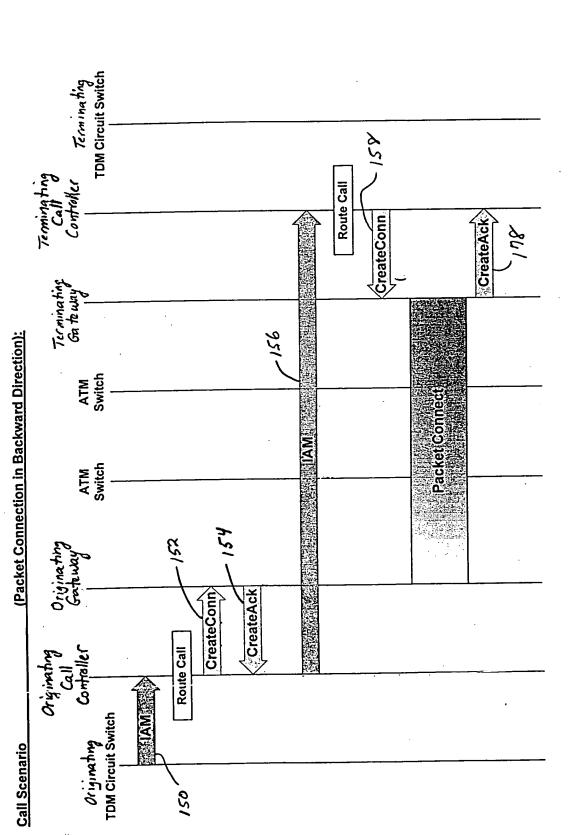
ORIGINATING GATEWAY 305 NOTIFIES ITS CALL CONTROLLER THAT CONTINUITY CHECK WAS SUCCESSFUL

ORIGINATING CALL 310 CONTROLLER SENDS AN SS7 MESSAGE TO THE TERMINATING CALL CONTROLLER INFORMING IT OF THE SUCCESSFUL CONTINUITY CHECK

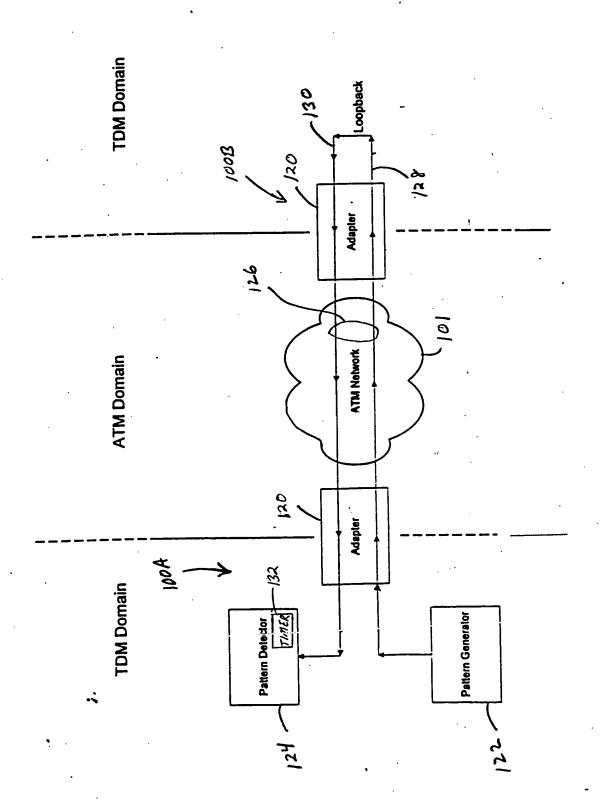
TERMINATING GATEWAY IS RECONFIGURED TO CONTINUE PROCESSING THE CALL

THE CALL CONTROLLER INSTRUCTS THE TERMINATING GATEWAY TO DISCONNECT THE LOOPBACK BETWEEN THE INCOMING AND OUTGOING PACKET STREAMS

FIG. 3B



FIR 4



F16.5

Byte No.	Value
1 2	1111 1111 0000 0000
3 4 5 6 7 8 9 10	1000 0000 0100 0000 0010 0000 0001 0000 0000 1000 0000 0100 0000 0010
11 12 13 14 15 16 17	0111 1111 1011 1111 1101 1111 1110 1111 1111 0111 1111 1011 1111 1101
19 20	1010 1010 0101 0101

FIG. 6